

Appendix A
CalEEMod Modeling Results

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Annual

**Summerfield at Twin Cities
Sacramento Metropolitan AQMD Air District, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	212.00	Dwelling Unit	45.90	381,600.00	566
City Park	1.90	Acre	1.90	82,764.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2025
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MWhr)	351.61	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - CO2 intensity factor updated per anticipated SMUD RPS standards

Land Use - updated lot acreage per the applicant-provided questionnaire

Construction Phase - total days adjusted per the applicant-provided questionnaire

Grading - updated total acres graded based on applicant-provided questionnaire

Vehicle Trips - trip generation rates are based on the GHD Traffic Impact Analysis prepared for the project

Energy Use -

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	55.00	740.00
tblConstructionPhase	NumDays	75.00	40.00
tblConstructionPhase	NumDays	55.00	40.00
tblConstructionPhase	NumDays	30.00	20.00
tblConstructionPhase	PhaseEndDate	10/25/2024	5/31/2024
tblConstructionPhase	PhaseEndDate	5/24/2024	5/17/2024
tblConstructionPhase	PhaseEndDate	7/23/2021	5/21/2021
tblConstructionPhase	PhaseEndDate	8/9/2024	7/16/2021
tblConstructionPhase	PhaseEndDate	4/9/2021	3/26/2021
tblConstructionPhase	PhaseStartDate	8/10/2024	8/2/2021
tblConstructionPhase	PhaseStartDate	7/24/2021	7/19/2021
tblConstructionPhase	PhaseStartDate	4/10/2021	3/29/2021
tblConstructionPhase	PhaseStartDate	5/25/2024	5/24/2021
tblGrading	AcresOfGrading	100.00	54.00
tblLandUse	LotAcreage	68.83	45.90
tblProjectCharacteristics	CO2IntensityFactor	590.31	351.61
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	9.91	9.79
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	8.62	9.79
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	9.52	9.79

2.0 Emissions Summary

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2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.6659	2.9620	2.4972	4.9900e-003	0.4066	0.1375	0.5441	0.1893	0.1281	0.3174	0.0000	441.1818	441.1818	0.0979	0.0000	443.6281
2022	1.1570	2.7029	2.8831	6.1800e-003	0.1543	0.1178	0.2722	0.0417	0.1115	0.1532	0.0000	548.0720	548.0720	0.0830	0.0000	550.1469
2023	1.1315	2.4553	2.8209	6.1100e-003	0.1543	0.1016	0.2559	0.0417	0.0961	0.1378	0.0000	542.2285	542.2285	0.0814	0.0000	544.2646
2024	0.4617	0.8954	1.0791	2.3500e-003	0.0602	0.0345	0.0947	0.0162	0.0327	0.0489	0.0000	208.7185	208.7185	0.0311	0.0000	209.4958
Maximum	1.1570	2.9620	2.8831	6.1800e-003	0.4066	0.1375	0.5441	0.1893	0.1281	0.3174	0.0000	548.0720	548.0720	0.0979	0.0000	550.1469

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2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.6659	2.9620	2.4972	4.9900e-003	0.4066	0.1375	0.5441	0.1893	0.1281	0.3174	0.0000	441.1814	441.1814	0.0979	0.0000	443.6277
2022	1.1570	2.7029	2.8831	6.1800e-003	0.1543	0.1178	0.2722	0.0417	0.1115	0.1532	0.0000	548.0716	548.0716	0.0830	0.0000	550.1465
2023	1.1315	2.4553	2.8209	6.1100e-003	0.1543	0.1016	0.2559	0.0417	0.0961	0.1378	0.0000	542.2281	542.2281	0.0814	0.0000	544.2642
2024	0.4617	0.8954	1.0791	2.3500e-003	0.0602	0.0345	0.0947	0.0162	0.0327	0.0489	0.0000	208.7183	208.7183	0.0311	0.0000	209.4957
Maximum	1.1570	2.9620	2.8831	6.1800e-003	0.4066	0.1375	0.5441	0.1893	0.1281	0.3174	0.0000	548.0716	548.0716	0.0979	0.0000	550.1465

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-1-2021	5-31-2021	1.4320	1.4320
2	6-1-2021	8-31-2021	0.6966	0.6966
3	9-1-2021	11-30-2021	1.0440	1.0440
4	12-1-2021	2-28-2022	0.9828	0.9828
5	3-1-2022	5-31-2022	0.9758	0.9758
6	6-1-2022	8-31-2022	0.9749	0.9749
7	9-1-2022	11-30-2022	0.9660	0.9660
8	12-1-2022	2-28-2023	0.9118	0.9118

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9	3-1-2023	5-31-2023	0.9071	0.9071
10	6-1-2023	8-31-2023	0.9065	0.9065
11	9-1-2023	11-30-2023	0.8978	0.8978
12	12-1-2023	2-29-2024	0.8715	0.8715
13	3-1-2024	5-31-2024	0.7742	0.7742
		Highest	1.4320	1.4320

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.7955	0.0252	2.1842	1.2000e-004		0.0121	0.0121		0.0121	0.0121	0.0000	3.5713	3.5713	3.4200e-003	0.0000	3.6568
Energy	0.0295	0.2524	0.1074	1.6100e-003		0.0204	0.0204		0.0204	0.0204	0.0000	577.7669	577.7669	0.0292	0.0102	581.5442
Mobile	0.4932	2.0918	5.7403	0.0206	1.9844	0.0161	2.0005	0.5317	0.0150	0.5467	0.0000	1,898.8299	1,898.8299	0.0810	0.0000	1,900.8560
Waste						0.0000	0.0000		0.0000	0.0000	41.3939	0.0000	41.3939	2.4463	0.0000	102.5517
Water						0.0000	0.0000		0.0000	0.0000	4.8869	17.1009	21.9879	0.0182	0.0109	25.6976
Total	2.3182	2.3693	8.0319	0.0223	1.9844	0.0487	2.0330	0.5317	0.0475	0.5793	46.2809	2,497.2691	2,543.5499	2.5782	0.0212	2,614.3063

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.7955	0.0252	2.1842	1.2000e-004		0.0121	0.0121		0.0121	0.0121	0.0000	3.5713	3.5713	3.4200e-003	0.0000	3.6568
Energy	0.0155	0.1325	0.0564	8.5000e-004		0.0107	0.0107		0.0107	0.0107	0.0000	426.8072	426.8072	0.0255	7.4800e-003	429.6728
Mobile	0.4897	2.0711	5.6513	0.0202	1.9447	0.0159	1.9605	0.5211	0.0148	0.5358	0.0000	1,863.2817	1,863.2817	0.0798	0.0000	1,865.2760
Waste						0.0000	0.0000		0.0000	0.0000	41.3939	0.0000	41.3939	2.4463	0.0000	102.5517
Water						0.0000	0.0000		0.0000	0.0000	4.8869	17.1009	21.9879	0.0182	0.0109	25.6976
Total	2.3007	2.2288	7.8919	0.0212	1.9447	0.0387	1.9834	0.5211	0.0376	0.5587	46.2809	2,310.7611	2,357.0420	2.5732	0.0184	2,426.8548

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.76	5.93	1.74	5.15	2.00	20.49	2.44	2.00	20.91	3.55	0.00	7.47	7.33	0.19	13.00	7.17

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	3/1/2021	3/26/2021	5	20	
2	Grading	Grading	3/29/2021	5/21/2021	5	40	
3	Building Construction	Building Construction	7/19/2021	5/17/2024	5	740	
4	Paving	Paving	5/24/2021	7/16/2021	5	40	
5	Architectural Coating	Architectural Coating	8/2/2021	5/31/2024	5	740	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 54

Acres of Paving: 0

Residential Indoor: 772,740; Residential Outdoor: 257,580; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	111.00	36.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	22.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7061
Total	0.0389	0.4050	0.2115	3.8000e-004	0.1807	0.0204	0.2011	0.0993	0.0188	0.1181	0.0000	33.4357	33.4357	0.0108	0.0000	33.7061

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2000e-004	4.1000e-004	4.5600e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1314	1.1314	3.0000e-005	0.0000	1.1322
Total	6.2000e-004	4.1000e-004	4.5600e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1314	1.1314	3.0000e-005	0.0000	1.1322

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3.2 Site Preparation - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7060
Total	0.0389	0.4050	0.2115	3.8000e-004	0.1807	0.0204	0.2011	0.0993	0.0188	0.1181	0.0000	33.4357	33.4357	0.0108	0.0000	33.7060

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.2000e-004	4.1000e-004	4.5600e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1314	1.1314	3.0000e-005	0.0000	1.1322
Total	6.2000e-004	4.1000e-004	4.5600e-003	1.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1314	1.1314	3.0000e-005	0.0000	1.1322

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3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1491	0.0000	0.1491	0.0693	0.0000	0.0693	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0838	0.9280	0.6176	1.2400e-003		0.0397	0.0397		0.0365	0.0365	0.0000	108.9900	108.9900	0.0353	0.0000	109.8712
Total	0.0838	0.9280	0.6176	1.2400e-003	0.1491	0.0397	0.1888	0.0693	0.0365	0.1058	0.0000	108.9900	108.9900	0.0353	0.0000	109.8712

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3900e-003	9.1000e-004	0.0101	3.0000e-005	2.9400e-003	2.0000e-005	2.9600e-003	7.8000e-004	2.0000e-005	8.0000e-004	0.0000	2.5143	2.5143	7.0000e-005	0.0000	2.5160
Total	1.3900e-003	9.1000e-004	0.0101	3.0000e-005	2.9400e-003	2.0000e-005	2.9600e-003	7.8000e-004	2.0000e-005	8.0000e-004	0.0000	2.5143	2.5143	7.0000e-005	0.0000	2.5160

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3.3 Grading - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1491	0.0000	0.1491	0.0693	0.0000	0.0693	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0838	0.9280	0.6176	1.2400e-003		0.0397	0.0397		0.0365	0.0365	0.0000	108.9898	108.9898	0.0353	0.0000	109.8711
Total	0.0838	0.9280	0.6176	1.2400e-003	0.1491	0.0397	0.1888	0.0693	0.0365	0.1058	0.0000	108.9898	108.9898	0.0353	0.0000	109.8711

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3900e-003	9.1000e-004	0.0101	3.0000e-005	2.9400e-003	2.0000e-005	2.9600e-003	7.8000e-004	2.0000e-005	8.0000e-004	0.0000	2.5143	2.5143	7.0000e-005	0.0000	2.5160
Total	1.3900e-003	9.1000e-004	0.0101	3.0000e-005	2.9400e-003	2.0000e-005	2.9600e-003	7.8000e-004	2.0000e-005	8.0000e-004	0.0000	2.5143	2.5143	7.0000e-005	0.0000	2.5160

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3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1141	1.0459	0.9945	1.6200e-003		0.0575	0.0575		0.0541	0.0541	0.0000	138.9824	138.9824	0.0335	0.0000	139.8206
Total	0.1141	1.0459	0.9945	1.6200e-003		0.0575	0.0575		0.0541	0.0541	0.0000	138.9824	138.9824	0.0335	0.0000	139.8206

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.7900e-003	0.2210	0.0591	5.3000e-004	0.0126	6.1000e-004	0.0132	3.6500e-003	5.8000e-004	4.2300e-003	0.0000	50.6832	50.6832	2.9000e-003	0.0000	50.7557
Worker	0.0231	0.0151	0.1686	4.6000e-004	0.0489	3.4000e-004	0.0493	0.0130	3.2000e-004	0.0133	0.0000	41.8634	41.8634	1.1000e-003	0.0000	41.8908
Total	0.0299	0.2360	0.2276	9.9000e-004	0.0615	9.5000e-004	0.0625	0.0167	9.0000e-004	0.0176	0.0000	92.5466	92.5466	4.0000e-003	0.0000	92.6465

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3.4 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1141	1.0459	0.9945	1.6200e-003		0.0575	0.0575		0.0541	0.0541	0.0000	138.9822	138.9822	0.0335	0.0000	139.8205
Total	0.1141	1.0459	0.9945	1.6200e-003		0.0575	0.0575		0.0541	0.0541	0.0000	138.9822	138.9822	0.0335	0.0000	139.8205

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.7900e-003	0.2210	0.0591	5.3000e-004	0.0126	6.1000e-004	0.0132	3.6500e-003	5.8000e-004	4.2300e-003	0.0000	50.6832	50.6832	2.9000e-003	0.0000	50.7557
Worker	0.0231	0.0151	0.1686	4.6000e-004	0.0489	3.4000e-004	0.0493	0.0130	3.2000e-004	0.0133	0.0000	41.8634	41.8634	1.1000e-003	0.0000	41.8908
Total	0.0299	0.2360	0.2276	9.9000e-004	0.0615	9.5000e-004	0.0625	0.0167	9.0000e-004	0.0176	0.0000	92.5466	92.5466	4.0000e-003	0.0000	92.6465

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3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2428	301.2428	0.0722	0.0000	303.0471
Total	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2428	301.2428	0.0722	0.0000	303.0471

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0137	0.4546	0.1180	1.1300e-003	0.0274	1.1600e-003	0.0285	7.9100e-003	1.1100e-003	9.0200e-003	0.0000	108.8484	108.8484	6.1000e-003	0.0000	109.0009
Worker	0.0467	0.0294	0.3356	9.7000e-004	0.1060	7.2000e-004	0.1067	0.0282	6.6000e-004	0.0289	0.0000	87.4551	87.4551	2.1400e-003	0.0000	87.5086
Total	0.0604	0.4839	0.4536	2.1000e-003	0.1333	1.8800e-003	0.1352	0.0361	1.7700e-003	0.0379	0.0000	196.3035	196.3035	8.2400e-003	0.0000	196.5095

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3.4 Building Construction - 2022**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2425	301.2425	0.0722	0.0000	303.0467
Total	0.2218	2.0300	2.1272	3.5000e-003		0.1052	0.1052		0.0990	0.0990	0.0000	301.2425	301.2425	0.0722	0.0000	303.0467

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0137	0.4546	0.1180	1.1300e-003	0.0274	1.1600e-003	0.0285	7.9100e-003	1.1100e-003	9.0200e-003	0.0000	108.8484	108.8484	6.1000e-003	0.0000	109.0009
Worker	0.0467	0.0294	0.3356	9.7000e-004	0.1060	7.2000e-004	0.1067	0.0282	6.6000e-004	0.0289	0.0000	87.4551	87.4551	2.1400e-003	0.0000	87.5086
Total	0.0604	0.4839	0.4536	2.1000e-003	0.1333	1.8800e-003	0.1352	0.0361	1.7700e-003	0.0379	0.0000	196.3035	196.3035	8.2400e-003	0.0000	196.5095

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3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383
Total	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0108	0.3842	0.1044	1.1100e-003	0.0274	5.5000e-004	0.0279	7.9000e-003	5.3000e-004	8.4300e-003	0.0000	106.8365	106.8365	5.4700e-003	0.0000	106.9733
Worker	0.0437	0.0264	0.3082	9.3000e-004	0.1060	7.0000e-004	0.1067	0.0282	6.5000e-004	0.0288	0.0000	84.1710	84.1710	1.9200e-003	0.0000	84.2190
Total	0.0545	0.4106	0.4126	2.0400e-003	0.1333	1.2500e-003	0.1346	0.0361	1.1800e-003	0.0373	0.0000	191.0075	191.0075	7.3900e-003	0.0000	191.1923

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3.4 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380
Total	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0108	0.3842	0.1044	1.1100e-003	0.0274	5.5000e-004	0.0279	7.9000e-003	5.3000e-004	8.4300e-003	0.0000	106.8365	106.8365	5.4700e-003	0.0000	106.9733
Worker	0.0437	0.0264	0.3082	9.3000e-004	0.1060	7.0000e-004	0.1067	0.0282	6.5000e-004	0.0288	0.0000	84.1710	84.1710	1.9200e-003	0.0000	84.2190
Total	0.0545	0.4106	0.4126	2.0400e-003	0.1333	1.2500e-003	0.1346	0.0361	1.1800e-003	0.0373	0.0000	191.0075	191.0075	7.3900e-003	0.0000	191.1923

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3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0736	0.6722	0.8083	1.3500e-003		0.0307	0.0307		0.0288	0.0288	0.0000	115.9246	115.9246	0.0274	0.0000	116.6099
Total	0.0736	0.6722	0.8083	1.3500e-003		0.0307	0.0307		0.0288	0.0288	0.0000	115.9246	115.9246	0.0274	0.0000	116.6099

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.9600e-003	0.1449	0.0375	4.2000e-004	0.0105	2.0000e-004	0.0107	3.0400e-003	1.9000e-004	3.2300e-003	0.0000	40.8524	40.8524	2.0800e-003	0.0000	40.9044
Worker	0.0158	9.1800e-003	0.1098	3.4000e-004	0.0408	2.6000e-004	0.0410	0.0108	2.4000e-004	0.0111	0.0000	31.1150	31.1150	6.7000e-004	0.0000	31.1316
Total	0.0198	0.1541	0.1473	7.6000e-004	0.0513	4.6000e-004	0.0518	0.0139	4.3000e-004	0.0143	0.0000	71.9674	71.9674	2.7500e-003	0.0000	72.0360

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3.4 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0736	0.6722	0.8083	1.3500e-003		0.0307	0.0307		0.0288	0.0288	0.0000	115.9244	115.9244	0.0274	0.0000	116.6097
Total	0.0736	0.6722	0.8083	1.3500e-003		0.0307	0.0307		0.0288	0.0288	0.0000	115.9244	115.9244	0.0274	0.0000	116.6097

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.9600e-003	0.1449	0.0375	4.2000e-004	0.0105	2.0000e-004	0.0107	3.0400e-003	1.9000e-004	3.2300e-003	0.0000	40.8524	40.8524	2.0800e-003	0.0000	40.9044
Worker	0.0158	9.1800e-003	0.1098	3.4000e-004	0.0408	2.6000e-004	0.0410	0.0108	2.4000e-004	0.0111	0.0000	31.1150	31.1150	6.7000e-004	0.0000	31.1316
Total	0.0198	0.1541	0.1473	7.6000e-004	0.0513	4.6000e-004	0.0518	0.0139	4.3000e-004	0.0143	0.0000	71.9674	71.9674	2.7500e-003	0.0000	72.0360

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3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0251	0.2584	0.2931	4.6000e-004		0.0136	0.0136		0.0125	0.0125	0.0000	40.0470	40.0470	0.0130	0.0000	40.3708
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0251	0.2584	0.2931	4.6000e-004		0.0136	0.0136		0.0125	0.0125	0.0000	40.0470	40.0470	0.0130	0.0000	40.3708

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0400e-003	6.8000e-004	7.5900e-003	2.0000e-005	2.2000e-003	2.0000e-005	2.2200e-003	5.9000e-004	1.0000e-005	6.0000e-004	0.0000	1.8857	1.8857	5.0000e-005	0.0000	1.8870
Total	1.0400e-003	6.8000e-004	7.5900e-003	2.0000e-005	2.2000e-003	2.0000e-005	2.2200e-003	5.9000e-004	1.0000e-005	6.0000e-004	0.0000	1.8857	1.8857	5.0000e-005	0.0000	1.8870

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3.5 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0251	0.2584	0.2931	4.6000e-004		0.0136	0.0136		0.0125	0.0125	0.0000	40.0469	40.0469	0.0130	0.0000	40.3707
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0251	0.2584	0.2931	4.6000e-004		0.0136	0.0136		0.0125	0.0125	0.0000	40.0469	40.0469	0.0130	0.0000	40.3707

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0400e-003	6.8000e-004	7.5900e-003	2.0000e-005	2.2000e-003	2.0000e-005	2.2200e-003	5.9000e-004	1.0000e-005	6.0000e-004	0.0000	1.8857	1.8857	5.0000e-005	0.0000	1.8870
Total	1.0400e-003	6.8000e-004	7.5900e-003	2.0000e-005	2.2000e-003	2.0000e-005	2.2200e-003	5.9000e-004	1.0000e-005	6.0000e-004	0.0000	1.8857	1.8857	5.0000e-005	0.0000	1.8870

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3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3549					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0120	0.0840	0.1000	1.6000e-004		5.1800e-003	5.1800e-003		5.1800e-003	5.1800e-003	0.0000	14.0429	14.0429	9.6000e-004	0.0000	14.0670
Total	0.3670	0.0840	0.1000	1.6000e-004		5.1800e-003	5.1800e-003		5.1800e-003	5.1800e-003	0.0000	14.0429	14.0429	9.6000e-004	0.0000	14.0670

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1900e-003	2.7400e-003	0.0306	8.0000e-005	8.8900e-003	6.0000e-005	8.9500e-003	2.3600e-003	6.0000e-005	2.4200e-003	0.0000	7.6058	7.6058	2.0000e-004	0.0000	7.6108
Total	4.1900e-003	2.7400e-003	0.0306	8.0000e-005	8.8900e-003	6.0000e-005	8.9500e-003	2.3600e-003	6.0000e-005	2.4200e-003	0.0000	7.6058	7.6058	2.0000e-004	0.0000	7.6108

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3.6 Architectural Coating - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3549					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0120	0.0840	0.1000	1.6000e-004		5.1800e-003	5.1800e-003		5.1800e-003	5.1800e-003	0.0000	14.0429	14.0429	9.6000e-004	0.0000	14.0670
Total	0.3670	0.0840	0.1000	1.6000e-004		5.1800e-003	5.1800e-003		5.1800e-003	5.1800e-003	0.0000	14.0429	14.0429	9.6000e-004	0.0000	14.0670

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1900e-003	2.7400e-003	0.0306	8.0000e-005	8.8900e-003	6.0000e-005	8.9500e-003	2.3600e-003	6.0000e-005	2.4200e-003	0.0000	7.6058	7.6058	2.0000e-004	0.0000	7.6108
Total	4.1900e-003	2.7400e-003	0.0306	8.0000e-005	8.8900e-003	6.0000e-005	8.9500e-003	2.3600e-003	6.0000e-005	2.4200e-003	0.0000	7.6058	7.6058	2.0000e-004	0.0000	7.6108

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3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.8390					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0266	0.1831	0.2358	3.9000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	33.1923	33.1923	2.1600e-003	0.0000	33.2463
Total	0.8655	0.1831	0.2358	3.9000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	33.1923	33.1923	2.1600e-003	0.0000	33.2463

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.2600e-003	5.8200e-003	0.0665	1.9000e-004	0.0210	1.4000e-004	0.0212	5.5900e-003	1.3000e-004	5.7200e-003	0.0000	17.3334	17.3334	4.2000e-004	0.0000	17.3440
Total	9.2600e-003	5.8200e-003	0.0665	1.9000e-004	0.0210	1.4000e-004	0.0212	5.5900e-003	1.3000e-004	5.7200e-003	0.0000	17.3334	17.3334	4.2000e-004	0.0000	17.3440

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3.6 Architectural Coating - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.8390					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0266	0.1831	0.2358	3.9000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	33.1923	33.1923	2.1600e-003	0.0000	33.2463
Total	0.8655	0.1831	0.2358	3.9000e-004		0.0106	0.0106		0.0106	0.0106	0.0000	33.1923	33.1923	2.1600e-003	0.0000	33.2463

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.2600e-003	5.8200e-003	0.0665	1.9000e-004	0.0210	1.4000e-004	0.0212	5.5900e-003	1.3000e-004	5.7200e-003	0.0000	17.3334	17.3334	4.2000e-004	0.0000	17.3440
Total	9.2600e-003	5.8200e-003	0.0665	1.9000e-004	0.0210	1.4000e-004	0.0212	5.5900e-003	1.3000e-004	5.7200e-003	0.0000	17.3334	17.3334	4.2000e-004	0.0000	17.3440

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3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Archit. Coating	0.8390						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0249	0.1694	0.2355	3.9000e-004			9.2100e-003	9.2100e-003		9.2100e-003	9.2100e-003	0.0000	33.1923	33.1923	1.9900e-003	0.0000	33.2419
Total	0.8639	0.1694	0.2355	3.9000e-004			9.2100e-003	9.2100e-003		9.2100e-003	9.2100e-003	0.0000	33.1923	33.1923	1.9900e-003	0.0000	33.2419

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.6600e-003	5.2400e-003	0.0611	1.8000e-004	0.0210	1.4000e-004	0.0211	5.5900e-003	1.3000e-004	5.7200e-003	0.0000	16.6825	16.6825	3.8000e-004	0.0000	16.6921
Total	8.6600e-003	5.2400e-003	0.0611	1.8000e-004	0.0210	1.4000e-004	0.0211	5.5900e-003	1.3000e-004	5.7200e-003	0.0000	16.6825	16.6825	3.8000e-004	0.0000	16.6921

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3.6 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.8390					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0249	0.1694	0.2354	3.9000e-004		9.2100e-003	9.2100e-003		9.2100e-003	9.2100e-003	0.0000	33.1923	33.1923	1.9900e-003	0.0000	33.2419
Total	0.8639	0.1694	0.2354	3.9000e-004		9.2100e-003	9.2100e-003		9.2100e-003	9.2100e-003	0.0000	33.1923	33.1923	1.9900e-003	0.0000	33.2419

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.6600e-003	5.2400e-003	0.0611	1.8000e-004	0.0210	1.4000e-004	0.0211	5.5900e-003	1.3000e-004	5.7200e-003	0.0000	16.6825	16.6825	3.8000e-004	0.0000	16.6921
Total	8.6600e-003	5.2400e-003	0.0611	1.8000e-004	0.0210	1.4000e-004	0.0211	5.5900e-003	1.3000e-004	5.7200e-003	0.0000	16.6825	16.6825	3.8000e-004	0.0000	16.6921

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3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3549					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.9400e-003	0.0670	0.0996	1.6000e-004		3.3500e-003	3.3500e-003		3.3500e-003	3.3500e-003	0.0000	14.0429	14.0429	7.9000e-004	0.0000	14.0627
Total	0.3649	0.0670	0.0996	1.6000e-004		3.3500e-003	3.3500e-003		3.3500e-003	3.3500e-003	0.0000	14.0429	14.0429	7.9000e-004	0.0000	14.0627

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4500e-003	2.0000e-003	0.0239	8.0000e-005	8.8900e-003	6.0000e-005	8.9400e-003	2.3600e-003	5.0000e-005	2.4200e-003	0.0000	6.7836	6.7836	1.5000e-004	0.0000	6.7873
Total	3.4500e-003	2.0000e-003	0.0239	8.0000e-005	8.8900e-003	6.0000e-005	8.9400e-003	2.3600e-003	5.0000e-005	2.4200e-003	0.0000	6.7836	6.7836	1.5000e-004	0.0000	6.7873

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3.6 Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3549					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.9400e-003	0.0670	0.0996	1.6000e-004		3.3500e-003	3.3500e-003		3.3500e-003	3.3500e-003	0.0000	14.0429	14.0429	7.9000e-004	0.0000	14.0627
Total	0.3649	0.0670	0.0996	1.6000e-004		3.3500e-003	3.3500e-003		3.3500e-003	3.3500e-003	0.0000	14.0429	14.0429	7.9000e-004	0.0000	14.0627

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4500e-003	2.0000e-003	0.0239	8.0000e-005	8.8900e-003	6.0000e-005	8.9400e-003	2.3600e-003	5.0000e-005	2.4200e-003	0.0000	6.7836	6.7836	1.5000e-004	0.0000	6.7873
Total	3.4500e-003	2.0000e-003	0.0239	8.0000e-005	8.8900e-003	6.0000e-005	8.9400e-003	2.3600e-003	5.0000e-005	2.4200e-003	0.0000	6.7836	6.7836	1.5000e-004	0.0000	6.7873

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4897	2.0711	5.6513	0.0202	1.9447	0.0159	1.9605	0.5211	0.0148	0.5358	0.0000	1,863.2817	1,863.2817	0.0798	0.0000	1,865.2760
Unmitigated	0.4932	2.0918	5.7403	0.0206	1.9844	0.0161	2.0005	0.5317	0.0150	0.5467	0.0000	1,898.8299	1,898.8299	0.0810	0.0000	1,900.8560

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Single Family Housing	2,075.48	2,075.48	2075.48	5,325,908	5,219,390
Total	2,075.48	2,075.48	2,075.48	5,325,908	5,219,390

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.568817	0.036545	0.209097	0.111572	0.015710	0.004830	0.018344	0.024276	0.001951	0.001803	0.005698	0.000617	0.000741
Single Family Housing	0.568817	0.036545	0.209097	0.111572	0.015710	0.004830	0.018344	0.024276	0.001951	0.001803	0.005698	0.000617	0.000741

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	273.3286	273.3286	0.0225	4.6600e-003	275.2822
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	285.4958	285.4958	0.0236	4.8700e-003	287.5363
NaturalGas Mitigated	0.0155	0.1325	0.0564	8.5000e-004		0.0107	0.0107		0.0107	0.0107	0.0000	153.4786	153.4786	2.9400e-003	2.8100e-003	154.3906
NaturalGas Unmitigated	0.0295	0.2524	0.1074	1.6100e-003		0.0204	0.0204		0.0204	0.0204	0.0000	292.2711	292.2711	5.6000e-003	5.3600e-003	294.0080

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	5.47695e+006	0.0295	0.2524	0.1074	1.6100e-003		0.0204	0.0204		0.0204	0.0204	0.0000	292.2711	292.2711	5.6000e-003	5.3600e-003	294.0080
Total		0.0295	0.2524	0.1074	1.6100e-003		0.0204	0.0204		0.0204	0.0204	0.0000	292.2711	292.2711	5.6000e-003	5.3600e-003	294.0080

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.87608e+006	0.0155	0.1325	0.0564	8.5000e-004		0.0107	0.0107		0.0107	0.0107	0.0000	153.4786	153.4786	2.9400e-003	2.8100e-003	154.3906
Total		0.0155	0.1325	0.0564	8.5000e-004		0.0107	0.0107		0.0107	0.0107	0.0000	153.4786	153.4786	2.9400e-003	2.8100e-003	154.3906

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.79008e+006	285.4958	0.0236	4.8700e-003	287.5363
Total		285.4958	0.0236	4.8700e-003	287.5363

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	1.71379e+006	273.3286	0.0225	4.6600e-003	275.2822
Total		273.3286	0.0225	4.6600e-003	275.2822

6.0 Area Detail

6.1 Mitigation Measures Area

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Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.7955	0.0252	2.1842	1.2000e-004		0.0121	0.0121		0.0121	0.0121	0.0000	3.5713	3.5713	3.4200e-003	0.0000	3.6568
Unmitigated	1.7955	0.0252	2.1842	1.2000e-004		0.0121	0.0121		0.0121	0.0121	0.0000	3.5713	3.5713	3.4200e-003	0.0000	3.6568

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2388					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.4911					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0656	0.0252	2.1842	1.2000e-004		0.0121	0.0121		0.0121	0.0121	0.0000	3.5713	3.5713	3.4200e-003	0.0000	3.6568
Total	1.7955	0.0252	2.1842	1.2000e-004		0.0121	0.0121		0.0121	0.0121	0.0000	3.5713	3.5713	3.4200e-003	0.0000	3.6568

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2388					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.4911					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0656	0.0252	2.1842	1.2000e-004		0.0121	0.0121		0.0121	0.0121	0.0000	3.5713	3.5713	3.4200e-003	0.0000	3.6568
Total	1.7955	0.0252	2.1842	1.2000e-004		0.0121	0.0121		0.0121	0.0121	0.0000	3.5713	3.5713	3.4200e-003	0.0000	3.6568

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	21.9879	0.0182	0.0109	25.6976
Unmitigated	21.9879	0.0182	0.0109	25.6976

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 2.26381	1.2637	1.0000e-004	2.0000e-005	1.2727
Single Family Housing	13.8127 / 8.70798	20.7242	0.0181	0.0109	24.4249
Total		21.9879	0.0182	0.0109	25.6976

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 2.26381	1.2637	1.0000e-004	2.0000e-005	1.2727
Single Family Housing	13.8127 / 8.70798	20.7242	0.0181	0.0109	24.4249
Total		21.9879	0.0182	0.0109	25.6976

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	41.3939	2.4463	0.0000	102.5517
Unmitigated	41.3939	2.4463	0.0000	102.5517

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.16	0.0325	1.9200e-003	0.0000	0.0805
Single Family Housing	203.76	41.3614	2.4444	0.0000	102.4712
Total		41.3939	2.4463	0.0000	102.5517

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.16	0.0325	1.9200e-003	0.0000	0.0805
Single Family Housing	203.76	41.3614	2.4444	0.0000	102.4712
Total		41.3939	2.4463	0.0000	102.5517

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Summerfield at Twin Cities
Sacramento Metropolitan AQMD Air District, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Excavators	Diesel	No Change	0	2	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	4	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	9	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Scrapers	Diesel	No Change	0	2	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Unmitigated tons/yr						Unmitigated mt/yr					
Air Compressors	7.34900E-002	5.03500E-001	6.70730E-001	1.10000E-003	2.83600E-002	2.83600E-002	0.00000E+000	9.44704E+001	9.44704E+001	5.90000E-003	0.00000E+000	9.46179E+001
Cranes	1.18590E-001	1.31788E+000	6.05660E-001	1.87000E-003	5.46000E-002	5.02300E-002	0.00000E+000	1.64123E+002	1.64123E+002	5.30800E-002	0.00000E+000	1.65450E+002
Excavators	9.17000E-003	8.61400E-002	1.30870E-001	2.10000E-004	4.18000E-003	3.84000E-003	0.00000E+000	1.81507E+001	1.81507E+001	5.87000E-003	0.00000E+000	1.82974E+001
Forklifts	1.21700E-001	1.13046E+000	1.27754E+000	1.70000E-003	7.31000E-002	6.72500E-002	0.00000E+000	1.49063E+002	1.49063E+002	4.82100E-002	0.00000E+000	1.50269E+002
Generator Sets	1.18360E-001	1.05089E+000	1.35917E+000	2.43000E-003	5.13700E-002	5.13700E-002	0.00000E+000	2.09127E+002	2.09127E+002	9.60000E-003	0.00000E+000	2.09367E+002
Graders	9.06000E-003	1.18490E-001	3.53400E-002	1.30000E-004	3.75000E-003	3.45000E-003	0.00000E+000	1.16425E+001	1.16425E+001	3.77000E-003	0.00000E+000	1.17367E+001
Pavers	9.85000E-003	1.03800E-001	1.16190E-001	1.90000E-004	5.02000E-003	4.62000E-003	0.00000E+000	1.65130E+001	1.65130E+001	5.34000E-003	0.00000E+000	1.66465E+001
Paving Equipment	7.68000E-003	7.76100E-002	1.01660E-001	1.60000E-004	3.83000E-003	3.53000E-003	0.00000E+000	1.43138E+001	1.43138E+001	4.63000E-003	0.00000E+000	1.44295E+001
Rollers	7.58000E-003	7.69700E-002	7.52200E-002	1.00000E-004	4.71000E-003	4.33000E-003	0.00000E+000	9.22022E+000	9.22022E+000	2.98000E-003	0.00000E+000	9.29477E+000
Rubber Tired Dozers	5.23200E-002	5.48560E-001	2.01890E-001	4.30000E-004	2.66200E-002	2.44900E-002	0.00000E+000	3.75281E+001	3.75281E+001	1.21400E-002	0.00000E+000	3.78315E+001
Scrapers	3.71800E-002	4.28110E-001	2.80190E-001	6.10000E-004	1.66600E-002	1.53200E-002	0.00000E+000	5.32667E+001	5.32667E+001	1.72300E-002	0.00000E+000	5.36974E+001
Tractors/Loaders/Backhoes	1.71230E-001	1.73620E+000	2.35536E+000	3.27000E-003	9.18900E-002	8.45400E-002	0.00000E+000	2.87379E+002	2.87379E+002	9.29400E-002	0.00000E+000	2.89703E+002
Welders	9.90100E-002	5.34420E-001	6.24900E-001	9.50000E-004	2.22900E-002	2.22900E-002	0.00000E+000	6.96416E+001	6.96416E+001	8.03000E-003	0.00000E+000	6.98423E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Mitigated tons/yr						Mitigated mt/yr					
Air Compressors	7.34900E-002	5.03500E-001	6.70730E-001	1.10000E-003	2.83600E-002	2.83600E-002	0.00000E+000	9.44703E+001	9.44703E+001	5.90000E-003	0.00000E+000	9.46178E+001
Cranes	1.18590E-001	1.31788E+000	6.05660E-001	1.87000E-003	5.46000E-002	5.02300E-002	0.00000E+000	1.64122E+002	1.64122E+002	5.30800E-002	0.00000E+000	1.65449E+002
Excavators	9.17000E-003	8.61400E-002	1.30870E-001	2.10000E-004	4.18000E-003	3.84000E-003	0.00000E+000	1.81506E+001	1.81506E+001	5.87000E-003	0.00000E+000	1.82974E+001
Forklifts	1.21700E-001	1.13045E+000	1.27754E+000	1.70000E-003	7.31000E-002	6.72500E-002	0.00000E+000	1.49063E+002	1.49063E+002	4.82100E-002	0.00000E+000	1.50268E+002
Generator Sets	1.18360E-001	1.05089E+000	1.35917E+000	2.43000E-003	5.13700E-002	5.13700E-002	0.00000E+000	2.09127E+002	2.09127E+002	9.60000E-003	0.00000E+000	2.09366E+002
Graders	9.06000E-003	1.18490E-001	3.53400E-002	1.30000E-004	3.75000E-003	3.45000E-003	0.00000E+000	1.16425E+001	1.16425E+001	3.77000E-003	0.00000E+000	1.17366E+001
Pavers	9.85000E-003	1.03800E-001	1.16190E-001	1.90000E-004	5.02000E-003	4.62000E-003	0.00000E+000	1.65130E+001	1.65130E+001	5.34000E-003	0.00000E+000	1.66465E+001
Paving Equipment	7.68000E-003	7.76100E-002	1.01660E-001	1.60000E-004	3.83000E-003	3.53000E-003	0.00000E+000	1.43138E+001	1.43138E+001	4.63000E-003	0.00000E+000	1.44295E+001
Rollers	7.58000E-003	7.69700E-002	7.52200E-002	1.00000E-004	4.71000E-003	4.33000E-003	0.00000E+000	9.22021E+000	9.22021E+000	2.98000E-003	0.00000E+000	9.29476E+000
Rubber Tired Dozers	5.23200E-002	5.48560E-001	2.01890E-001	4.30000E-004	2.66200E-002	2.44900E-002	0.00000E+000	3.75280E+001	3.75280E+001	1.21400E-002	0.00000E+000	3.78315E+001
Scrapers	3.71800E-002	4.28110E-001	2.80190E-001	6.10000E-004	1.66600E-002	1.53200E-002	0.00000E+000	5.32666E+001	5.32666E+001	1.72300E-002	0.00000E+000	5.36973E+001
Tractors/Loaders/Balckhoes	1.71230E-001	1.73620E+000	2.35536E+000	3.27000E-003	9.18900E-002	8.45400E-002	0.00000E+000	2.87379E+002	2.87379E+002	9.29400E-002	0.00000E+000	2.89703E+002
Welders	9.90100E-002	5.34420E-001	6.24900E-001	9.50000E-004	2.22900E-002	2.22900E-002	0.00000E+000	6.96416E+001	6.96416E+001	8.03000E-003	0.00000E+000	6.98423E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.16439E-006	1.16439E-006	0.00000E+000	0.00000E+000	1.16257E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.15767E-006	1.15767E-006	0.00000E+000	0.00000E+000	1.20883E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.10189E-006	1.10189E-006	0.00000E+000	0.00000E+000	1.09305E-006
Forklifts	0.00000E+000	8.84596E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.14045E-006	1.14045E-006	0.00000E+000	0.00000E+000	1.19785E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.19545E-006	1.19545E-006	0.00000E+000	0.00000E+000	1.19408E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.58921E-007	8.58921E-007	0.00000E+000	0.00000E+000	1.70406E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21117E-006	1.21117E-006	0.00000E+000	0.00000E+000	1.20145E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.39726E-006	1.39726E-006	0.00000E+000	0.00000E+000	1.38605E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.08457E-006	1.08457E-006	0.00000E+000	0.00000E+000	1.07587E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.06587E-006	1.06587E-006	0.00000E+000	0.00000E+000	1.32165E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.31414E-006	1.31414E-006	0.00000E+000	0.00000E+000	1.30360E-006
Tractors/Loaders/Balckhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18311E-006	1.18311E-006	0.00000E+000	0.00000E+000	1.20813E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.14874E-006	1.14874E-006	0.00000E+000	0.00000E+000	1.14544E-006

Fugitive Dust Mitigation

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

No	Soil Stabilizer for unpaved Roads	PM10 Reduction	PM2.5 Reduction	
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	PM2.5 Reduction	
No	Water Exposed Area	PM10 Reduction	PM2.5 Reduction	Frequency (per day)

No	Unpaved Road Mitigation	Moisture Content %		Vehicle Speed (mph)	0.00		
No	Clean Paved Road	% PM Reduction	0.00				

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.06	0.02	0.06	0.02	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.38	0.10	0.38	0.10	0.00	0.00
Grading	Fugitive Dust	0.15	0.07	0.15	0.07	0.00	0.00
Grading	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.18	0.10	0.18	0.10	0.00	0.00
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.26	4.26	4.29	4.31	4.26
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.71	0.99	1.55	1.89	1.73	1.66	0.00	1.87	1.87	1.57	0.00	1.87
Natural Gas	47.48	47.49	47.49	47.20	47.50	47.50	0.00	47.49	47.49	47.50	47.57	47.49
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting: Low Density Suburban

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.13	0.36		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

Yes	Neighborhood Enhancements	Improve Pedestrian Network	2.00	Project Site and Connecting Off-Site		
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.02			
No	Parking Policy Pricing	Limit Parking Supply	0.00			
No	Parking Policy Pricing	Unbundle Parking Costs	0.00			
No	Parking Policy Pricing	On-street Market Pricing	0.00			
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00			
No	Transit Improvements	Expand Transit Network	0.00			
No	Transit Improvements	Increase Transit Frequency	0.00			
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.02			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"	3.00			
No	Commute	Workplace Parking Charge				
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00			
No	Commute	Employee Vanpool/Shuttle	0.00			2.00
No	Commute	Provide Ride Sharing Program	5.00			
	Commute	Commute Subtotal	0.00			

No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.02		

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
Yes	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	100.00
No	Use Low VOC Paint (Residential Exterior)	100.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	100.00
No	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	0.00
No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Exceed Title 24	53.00	
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

Solid Waste Mitigation

Mitigation Measures	Input Value
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Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
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Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Summer

Summerfield at Twin Cities
Sacramento Metropolitan AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	212.00	Dwelling Unit	45.90	381,600.00	566
City Park	1.90	Acre	1.90	82,764.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2025
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	351.61	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Summer

Project Characteristics - CO2 intensity factor updated per anticipated SMUD RPS standards

Land Use - updated lot acreage per the applicant-provided questionnaire

Construction Phase - total days adjusted per the applicant-provided questionnaire

Grading - updated total acres graded based on applicant-provided questionnaire

Vehicle Trips - trip generation rates are based on the GHD Traffic Impact Analysis prepared for the project

Energy Use -

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	55.00	740.00
tblConstructionPhase	NumDays	75.00	40.00
tblConstructionPhase	NumDays	55.00	40.00
tblConstructionPhase	NumDays	30.00	20.00
tblConstructionPhase	PhaseEndDate	10/25/2024	5/31/2024
tblConstructionPhase	PhaseEndDate	5/24/2024	5/17/2024
tblConstructionPhase	PhaseEndDate	7/23/2021	5/21/2021
tblConstructionPhase	PhaseEndDate	8/9/2024	7/16/2021
tblConstructionPhase	PhaseEndDate	4/9/2021	3/26/2021
tblConstructionPhase	PhaseStartDate	8/10/2024	8/2/2021
tblConstructionPhase	PhaseStartDate	7/24/2021	7/19/2021
tblConstructionPhase	PhaseStartDate	4/10/2021	3/29/2021
tblConstructionPhase	PhaseStartDate	5/25/2024	5/24/2021
tblGrading	AcresOfGrading	100.00	54.00
tblLandUse	LotAcreage	68.83	45.90
tblProjectCharacteristics	CO2IntensityFactor	590.31	351.61
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	9.91	9.79
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	8.62	9.79
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	9.52	9.79

2.0 Emissions Summary

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Summer

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	9.2175	46.4409	31.4768	0.0636	18.2032	2.0454	20.2486	9.9670	1.8818	11.8488	0.0000	6,160.339 3	6,160.339 3	1.9469	0.0000	6,209.0112
2022	8.9650	20.7072	22.6918	0.0486	1.2283	0.9061	2.1344	0.3307	0.8573	1.1880	0.0000	4,751.749 2	4,751.749 2	0.7046	0.0000	4,769.364 6
2023	8.7645	18.8248	22.1824	0.0480	1.2283	0.7811	2.0094	0.3307	0.7391	1.0698	0.0000	4,698.400 7	4,698.400 7	0.6914	0.0000	4,715.686 1
2024	8.6202	17.7236	21.8110	0.0476	1.2283	0.6845	1.9128	0.3307	0.6474	0.9781	0.0000	4,656.716 6	4,656.716 6	0.6842	0.0000	4,673.822 6
Maximum	9.2175	46.4409	31.4768	0.0636	18.2032	2.0454	20.2486	9.9670	1.8818	11.8488	0.0000	6,160.339 3	6,160.339 3	1.9469	0.0000	6,209.011 2

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Summer

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	10.0035	0.2013	17.4739	9.2000e-004		0.0970	0.0970		0.0970	0.0970	0.0000	31.4935	31.4935	0.0302	0.0000	32.2475
Energy	0.1618	1.3829	0.5885	8.8300e-003		0.1118	0.1118		0.1118	0.1118		1,765.3358	1,765.3358	0.0338	0.0324	1,775.8263
Mobile	3.4486	11.0924	35.6406	0.1224	11.2873	0.0884	11.3757	3.0158	0.0823	3.0981		12,419.3930	12,419.3930	0.5023		12,431.9507
Total	13.6140	12.6765	53.7029	0.1322	11.2873	0.2972	11.5845	3.0158	0.2911	3.3069	0.0000	14,216.2223	14,216.2223	0.5663	0.0324	14,240.0245

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	10.0035	0.2013	17.4739	9.2000e-004		0.0970	0.0970		0.0970	0.0970	0.0000	31.4935	31.4935	0.0302	0.0000	32.2475
Energy	0.0850	0.7262	0.3090	4.6400e-003		0.0587	0.0587		0.0587	0.0587		927.0201	927.0201	0.0178	0.0170	932.5289
Mobile	3.4285	10.9874	35.0463	0.1201	11.0615	0.0869	11.1484	2.9555	0.0809	3.0364		12,186.2750	12,186.2750	0.4942		12,198.6297
Total	13.5170	11.9148	52.8292	0.1257	11.0615	0.2426	11.3041	2.9555	0.2366	3.1920	0.0000	13,144.7886	13,144.7886	0.5421	0.0170	13,163.4061

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.71	6.01	1.63	4.91	2.00	18.38	2.42	2.00	18.73	3.47	0.00	7.54	7.54	4.27	47.47	7.56

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	3/1/2021	3/26/2021	5	20	
2	Grading	Grading	3/29/2021	5/21/2021	5	40	
3	Building Construction	Building Construction	7/19/2021	5/17/2024	5	740	
4	Paving	Paving	5/24/2021	7/16/2021	5	40	
5	Architectural Coating	Architectural Coating	8/2/2021	5/31/2024	5	740	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 54

Acres of Paving: 0

Residential Indoor: 772,740; Residential Outdoor: 257,580; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	111.00	36.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	22.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Summer

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116		3,685.6569	3,685.6569	1.1920		3,715.4573

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0721	0.0369	0.5385	1.3900e-003	0.1369	9.2000e-004	0.1379	0.0363	8.5000e-004	0.0372		137.9662	137.9662	3.6700e-003		138.0580
Total	0.0721	0.0369	0.5385	1.3900e-003	0.1369	9.2000e-004	0.1379	0.0363	8.5000e-004	0.0372		137.9662	137.9662	3.6700e-003		138.0580

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Summer

3.2 Site Preparation - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0721	0.0369	0.5385	1.3900e-003	0.1369	9.2000e-004	0.1379	0.0363	8.5000e-004	0.0372		137.9662	137.9662	3.6700e-003		138.0580
Total	0.0721	0.0369	0.5385	1.3900e-003	0.1369	9.2000e-004	0.1379	0.0363	8.5000e-004	0.0372		137.9662	137.9662	3.6700e-003		138.0580

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Summer

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.4538	0.0000	7.4538	3.4648	0.0000	3.4648			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	7.4538	1.9853	9.4391	3.4648	1.8265	5.2913		6,007.0434	6,007.0434	1.9428		6,055.6134

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0802	0.0410	0.5983	1.5400e-003	0.1521	1.0300e-003	0.1532	0.0404	9.5000e-004	0.0413		153.2958	153.2958	4.0800e-003		153.3978
Total	0.0802	0.0410	0.5983	1.5400e-003	0.1521	1.0300e-003	0.1532	0.0404	9.5000e-004	0.0413		153.2958	153.2958	4.0800e-003		153.3978

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Summer

3.3 Grading - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.4538	0.0000	7.4538	3.4648	0.0000	3.4648			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.043 4	6,007.043 4	1.9428		6,055.613 4
Total	4.1912	46.3998	30.8785	0.0620	7.4538	1.9853	9.4391	3.4648	1.8265	5.2913	0.0000	6,007.043 4	6,007.043 4	1.9428		6,055.613 4

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0802	0.0410	0.5983	1.5400e-003	0.1521	1.0300e-003	0.1532	0.0404	9.5000e-004	0.0413		153.2958	153.2958	4.0800e-003		153.3978
Total	0.0802	0.0410	0.5983	1.5400e-003	0.1521	1.0300e-003	0.1532	0.0404	9.5000e-004	0.0413		153.2958	153.2958	4.0800e-003		153.3978

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Summer

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1113	3.6159	0.9233	8.8800e-003	0.2166	9.9200e-003	0.2265	0.0623	9.4900e-003	0.0718		941.3205	941.3205	0.0515		942.6066
Worker	0.4449	0.2277	3.3206	8.5500e-003	0.8444	5.7000e-003	0.8501	0.2240	5.2500e-003	0.2292		850.7917	850.7917	0.0226		851.3577
Total	0.5561	3.8436	4.2439	0.0174	1.0610	0.0156	1.0766	0.2863	0.0147	0.3011		1,792.1122	1,792.1122	0.0741		1,793.9643

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Summer

3.4 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1113	3.6159	0.9233	8.8800e-003	0.2166	9.9200e-003	0.2265	0.0623	9.4900e-003	0.0718		941.3205	941.3205	0.0515		942.6066
Worker	0.4449	0.2277	3.3206	8.5500e-003	0.8444	5.7000e-003	0.8501	0.2240	5.2500e-003	0.2292		850.7917	850.7917	0.0226		851.3577
Total	0.5561	3.8436	4.2439	0.0174	1.0610	0.0156	1.0766	0.2863	0.0147	0.3011		1,792.1122	1,792.1122	0.0741		1,793.9643

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Summer

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1032	3.4377	0.8507	8.8000e-003	0.2166	8.6900e-003	0.2253	0.0623	8.3100e-003	0.0706		933.1092	933.1092	0.0500		934.3583
Worker	0.4153	0.2048	3.0580	8.2400e-003	0.8444	5.5500e-003	0.8499	0.2240	5.1100e-003	0.2291		820.2803	820.2803	0.0204		820.7890
Total	0.5185	3.6425	3.9088	0.0170	1.0610	0.0142	1.0752	0.2863	0.0134	0.2997		1,753.3895	1,753.3895	0.0703		1,755.1473

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Summer

3.4 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1032	3.4377	0.8507	8.8000e-003	0.2166	8.6900e-003	0.2253	0.0623	8.3100e-003	0.0706		933.1092	933.1092	0.0500		934.3583
Worker	0.4153	0.2048	3.0580	8.2400e-003	0.8444	5.5500e-003	0.8499	0.2240	5.1100e-003	0.2291		820.2803	820.2803	0.0204		820.7890
Total	0.5185	3.6425	3.9088	0.0170	1.0610	0.0142	1.0752	0.2863	0.0134	0.2997		1,753.3895	1,753.3895	0.0703		1,755.1473

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Summer

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0816	2.9160	0.7546	8.6300e-003	0.2166	4.1000e-003	0.2207	0.0623	3.9200e-003	0.0662		915.8358	915.8358	0.0449		916.9577
Worker	0.3881	0.1844	2.8148	7.9200e-003	0.8444	5.4200e-003	0.8498	0.2240	4.9900e-003	0.2290		789.4411	789.4411	0.0182		789.8972
Total	0.4697	3.1003	3.5694	0.0166	1.0610	9.5200e-003	1.0705	0.2863	8.9100e-003	0.2952		1,705.2769	1,705.2769	0.0631		1,706.8548

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Summer

3.4 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0816	2.9160	0.7546	8.6300e-003	0.2166	4.1000e-003	0.2207	0.0623	3.9200e-003	0.0662		915.8358	915.8358	0.0449		916.9577
Worker	0.3881	0.1844	2.8148	7.9200e-003	0.8444	5.4200e-003	0.8498	0.2240	4.9900e-003	0.2290		789.4411	789.4411	0.0182		789.8972
Total	0.4697	3.1003	3.5694	0.0166	1.0610	9.5200e-003	1.0705	0.2863	8.9100e-003	0.2952		1,705.2769	1,705.2769	0.0631		1,706.8548

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Summer

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0777	2.8613	0.7054	8.5800e-003	0.2166	3.9000e-003	0.2205	0.0623	3.7300e-003	0.0660		910.4814	910.4814	0.0443		911.5895
Worker	0.3645	0.1667	2.6112	7.6100e-003	0.8444	5.3000e-003	0.8497	0.2240	4.8800e-003	0.2289		758.7128	758.7128	0.0165		759.1242
Total	0.4422	3.0280	3.3165	0.0162	1.0609	9.2000e-003	1.0701	0.2863	8.6100e-003	0.2949		1,669.1942	1,669.1942	0.0608		1,670.7137

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Summer

3.4 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0777	2.8613	0.7054	8.5800e-003	0.2166	3.9000e-003	0.2205	0.0623	3.7300e-003	0.0660		910.4814	910.4814	0.0443		911.5895
Worker	0.3645	0.1667	2.6112	7.6100e-003	0.8444	5.3000e-003	0.8497	0.2240	4.8800e-003	0.2289		758.7128	758.7128	0.0165		759.1242
Total	0.4422	3.0280	3.3165	0.0162	1.0609	9.2000e-003	1.0701	0.2863	8.6100e-003	0.2949		1,669.1942	1,669.1942	0.0608		1,670.7137

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Summer

3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0601	0.0308	0.4487	1.1500e-003	0.1141	7.7000e-004	0.1149	0.0303	7.1000e-004	0.0310		114.9719	114.9719	3.0600e-003		115.0483
Total	0.0601	0.0308	0.4487	1.1500e-003	0.1141	7.7000e-004	0.1149	0.0303	7.1000e-004	0.0310		114.9719	114.9719	3.0600e-003		115.0483

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Summer

3.5 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0601	0.0308	0.4487	1.1500e-003	0.1141	7.7000e-004	0.1149	0.0303	7.1000e-004	0.0310		114.9719	114.9719	3.0600e-003		115.0483
Total	0.0601	0.0308	0.4487	1.1500e-003	0.1141	7.7000e-004	0.1149	0.0303	7.1000e-004	0.0310		114.9719	114.9719	3.0600e-003		115.0483

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Summer

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.4534					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	6.6723	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0882	0.0451	0.6581	1.6900e-003	0.1674	1.1300e-003	0.1685	0.0444	1.0400e-003	0.0454		168.6254	168.6254	4.4900e-003		168.7376
Total	0.0882	0.0451	0.6581	1.6900e-003	0.1674	1.1300e-003	0.1685	0.0444	1.0400e-003	0.0454		168.6254	168.6254	4.4900e-003		168.7376

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Summer

3.6 Architectural Coating - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.4534					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	6.6723	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0882	0.0451	0.6581	1.6900e-003	0.1674	1.1300e-003	0.1685	0.0444	1.0400e-003	0.0454		168.6254	168.6254	4.4900e-003		168.7376
Total	0.0882	0.0451	0.6581	1.6900e-003	0.1674	1.1300e-003	0.1685	0.0444	1.0400e-003	0.0454		168.6254	168.6254	4.4900e-003		168.7376

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Summer

3.6 Architectural Coating - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.4534					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	6.6580	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0823	0.0406	0.6061	1.6300e-003	0.1674	1.1000e-003	0.1685	0.0444	1.0100e-003	0.0454		162.5781	162.5781	4.0300e-003		162.6789
Total	0.0823	0.0406	0.6061	1.6300e-003	0.1674	1.1000e-003	0.1685	0.0444	1.0100e-003	0.0454		162.5781	162.5781	4.0300e-003		162.6789

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Summer

3.6 Architectural Coating - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.4534					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	6.6580	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0823	0.0406	0.6061	1.6300e-003	0.1674	1.1000e-003	0.1685	0.0444	1.0100e-003	0.0454		162.5781	162.5781	4.0300e-003		162.6789
Total	0.0823	0.0406	0.6061	1.6300e-003	0.1674	1.1000e-003	0.1685	0.0444	1.0100e-003	0.0454		162.5781	162.5781	4.0300e-003		162.6789

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Summer

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.4534					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	6.6451	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0769	0.0365	0.5579	1.5700e-003	0.1674	1.0700e-003	0.1684	0.0444	9.9000e-004	0.0454		156.4658	156.4658	3.6200e-003		156.5562
Total	0.0769	0.0365	0.5579	1.5700e-003	0.1674	1.0700e-003	0.1684	0.0444	9.9000e-004	0.0454		156.4658	156.4658	3.6200e-003		156.5562

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Summer

3.6 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.4534					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	6.6451	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0769	0.0365	0.5579	1.5700e-003	0.1674	1.0700e-003	0.1684	0.0444	9.9000e-004	0.0454		156.4658	156.4658	3.6200e-003		156.5562
Total	0.0769	0.0365	0.5579	1.5700e-003	0.1674	1.0700e-003	0.1684	0.0444	9.9000e-004	0.0454		156.4658	156.4658	3.6200e-003		156.5562

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Summer

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.4534					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	6.6342	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0722	0.0330	0.5175	1.5100e-003	0.1674	1.0500e-003	0.1684	0.0444	9.7000e-004	0.0454		150.3755	150.3755	3.2600e-003		150.4570
Total	0.0722	0.0330	0.5175	1.5100e-003	0.1674	1.0500e-003	0.1684	0.0444	9.7000e-004	0.0454		150.3755	150.3755	3.2600e-003		150.4570

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Summer

3.6 Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.4534					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	6.6342	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0722	0.0330	0.5175	1.5100e-003	0.1674	1.0500e-003	0.1684	0.0444	9.7000e-004	0.0454		150.3755	150.3755	3.2600e-003		150.4570
Total	0.0722	0.0330	0.5175	1.5100e-003	0.1674	1.0500e-003	0.1684	0.0444	9.7000e-004	0.0454		150.3755	150.3755	3.2600e-003		150.4570

4.0 Operational Detail - Mobile

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Summer

4.1 Mitigation Measures Mobile

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.4285	10.9874	35.0463	0.1201	11.0615	0.0869	11.1484	2.9555	0.0809	3.0364		12,186.27 50	12,186.27 50	0.4942		12,198.62 97
Unmitigated	3.4486	11.0924	35.6406	0.1224	11.2873	0.0884	11.3757	3.0158	0.0823	3.0981		12,419.39 30	12,419.39 30	0.5023		12,431.95 07

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Single Family Housing	2,075.48	2,075.48	2075.48	5,325,908	5,219,390
Total	2,075.48	2,075.48	2,075.48	5,325,908	5,219,390

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.568817	0.036545	0.209097	0.111572	0.015710	0.004830	0.018344	0.024276	0.001951	0.001803	0.005698	0.000617	0.000741
Single Family Housing	0.568817	0.036545	0.209097	0.111572	0.015710	0.004830	0.018344	0.024276	0.001951	0.001803	0.005698	0.000617	0.000741

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0850	0.7262	0.3090	4.6400e-003		0.0587	0.0587		0.0587	0.0587		927.0201	927.0201	0.0178	0.0170	932.5289
NaturalGas Unmitigated	0.1618	1.3829	0.5885	8.8300e-003		0.1118	0.1118		0.1118	0.1118		1,765.3358	1,765.3358	0.0338	0.0324	1,775.8263

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Summer

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	15005.4	0.1618	1.3829	0.5885	8.8300e-003		0.1118	0.1118		0.1118	0.1118		1,765.3358	1,765.3358	0.0338	0.0324	1,775.8263
Total		0.1618	1.3829	0.5885	8.8300e-003		0.1118	0.1118		0.1118	0.1118		1,765.3358	1,765.3358	0.0338	0.0324	1,775.8263

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	7.87967	0.0850	0.7262	0.3090	4.6400e-003		0.0587	0.0587		0.0587	0.0587		927.0201	927.0201	0.0178	0.0170	932.5289
Total		0.0850	0.7262	0.3090	4.6400e-003		0.0587	0.0587		0.0587	0.0587		927.0201	927.0201	0.0178	0.0170	932.5289

6.0 Area Detail

6.1 Mitigation Measures Area

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Summer

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	10.0035	0.2013	17.4739	9.2000e-004		0.0970	0.0970		0.0970	0.0970	0.0000	31.4935	31.4935	0.0302	0.0000	32.2475
Unmitigated	10.0035	0.2013	17.4739	9.2000e-004		0.0970	0.0970		0.0970	0.0970	0.0000	31.4935	31.4935	0.0302	0.0000	32.2475

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.3084					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.1705					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5247	0.2013	17.4739	9.2000e-004		0.0970	0.0970		0.0970	0.0970		31.4935	31.4935	0.0302		32.2475
Total	10.0035	0.2013	17.4739	9.2000e-004		0.0970	0.0970		0.0970	0.0970	0.0000	31.4935	31.4935	0.0302	0.0000	32.2475

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Summer

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.3084					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.1705					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5247	0.2013	17.4739	9.2000e-004		0.0970	0.0970		0.0970	0.0970		31.4935	31.4935	0.0302		32.2475
Total	10.0035	0.2013	17.4739	9.2000e-004		0.0970	0.0970		0.0970	0.0970	0.0000	31.4935	31.4935	0.0302	0.0000	32.2475

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Summer

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Winter

Summerfield at Twin Cities
Sacramento Metropolitan AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	212.00	Dwelling Unit	45.90	381,600.00	566
City Park	1.90	Acre	1.90	82,764.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2025
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	351.61	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Winter

Project Characteristics - CO2 intensity factor updated per anticipated SMUD RPS standards

Land Use - updated lot acreage per the applicant-provided questionnaire

Construction Phase - total days adjusted per the applicant-provided questionnaire

Grading - updated total acres graded based on applicant-provided questionnaire

Vehicle Trips - trip generation rates are based on the GHD Traffic Impact Analysis prepared for the project

Energy Use -

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Winter

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	55.00	740.00
tblConstructionPhase	NumDays	75.00	40.00
tblConstructionPhase	NumDays	55.00	40.00
tblConstructionPhase	NumDays	30.00	20.00
tblConstructionPhase	PhaseEndDate	10/25/2024	5/31/2024
tblConstructionPhase	PhaseEndDate	5/24/2024	5/17/2024
tblConstructionPhase	PhaseEndDate	7/23/2021	5/21/2021
tblConstructionPhase	PhaseEndDate	8/9/2024	7/16/2021
tblConstructionPhase	PhaseEndDate	4/9/2021	3/26/2021
tblConstructionPhase	PhaseStartDate	8/10/2024	8/2/2021
tblConstructionPhase	PhaseStartDate	7/24/2021	7/19/2021
tblConstructionPhase	PhaseStartDate	4/10/2021	3/29/2021
tblConstructionPhase	PhaseStartDate	5/25/2024	5/24/2021
tblGrading	AcresOfGrading	100.00	54.00
tblLandUse	LotAcreage	68.83	45.90
tblProjectCharacteristics	CO2IntensityFactor	590.31	351.61
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	9.91	9.79
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	8.62	9.79
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	9.52	9.79

2.0 Emissions Summary

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Winter

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	9.1820	46.4505	31.3888	0.0634	18.2032	2.0454	20.2486	9.9670	1.8818	11.8488	0.0000	6,141.676 3	6,141.676 3	1.9464	0.0000	6,190.336 0
2022	8.9326	20.8152	22.2766	0.0471	1.2283	0.9066	2.1350	0.3307	0.8579	1.1886	0.0000	4,607.992 1	4,607.992 1	0.7058	0.0000	4,625.637 1
2023	8.7347	18.9057	21.7768	0.0467	1.2283	0.7815	2.0098	0.3307	0.7395	1.0702	0.0000	4,559.699 4	4,559.699 4	0.6923	0.0000	4,577.006 6
2024	8.5933	17.7979	21.4265	0.0463	1.2283	0.6848	1.9131	0.3307	0.6477	0.9784	0.0000	4,522.775 6	4,522.775 6	0.6853	0.0000	4,539.908 3
Maximum	9.1820	46.4505	31.3888	0.0634	18.2032	2.0454	20.2486	9.9670	1.8818	11.8488	0.0000	6,141.676 3	6,141.676 3	1.9464	0.0000	6,190.336 0

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Winter

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	10.0035	0.2013	17.4739	9.2000e-004		0.0970	0.0970		0.0970	0.0970	0.0000	31.4935	31.4935	0.0302	0.0000	32.2475
Energy	0.1618	1.3829	0.5885	8.8300e-003		0.1118	0.1118		0.1118	0.1118		1,765.3358	1,765.3358	0.0338	0.0324	1,775.8263
Mobile	2.5423	11.7837	32.5307	0.1107	11.2873	0.0892	11.3765	3.0158	0.0831	3.0989		11,241.3612	11,241.3612	0.4999		11,253.8585
Total	12.7077	13.3678	50.5931	0.1204	11.2873	0.2980	11.5853	3.0158	0.2919	3.3076	0.0000	13,038.1905	13,038.1905	0.5639	0.0324	13,061.9322

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	10.0035	0.2013	17.4739	9.2000e-004		0.0970	0.0970		0.0970	0.0970	0.0000	31.4935	31.4935	0.0302	0.0000	32.2475
Energy	0.0850	0.7262	0.3090	4.6400e-003		0.0587	0.0587		0.0587	0.0587		927.0201	927.0201	0.0178	0.0170	932.5289
Mobile	2.5230	11.6638	32.0548	0.1086	11.0615	0.0877	11.1492	2.9555	0.0817	3.0371		11,030.5078	11,030.5078	0.4923		11,042.8142
Total	12.6115	12.5913	49.8377	0.1142	11.0615	0.2434	11.3049	2.9555	0.2373	3.1928	0.0000	11,989.0214	11,989.0214	0.5402	0.0170	12,007.5906

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.76	5.81	1.49	5.21	2.00	18.33	2.42	2.00	18.68	3.47	0.00	8.05	8.05	4.20	47.47	8.07

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	3/1/2021	3/26/2021	5	20	
2	Grading	Grading	3/29/2021	5/21/2021	5	40	
3	Building Construction	Building Construction	7/19/2021	5/17/2024	5	740	
4	Paving	Paving	5/24/2021	7/16/2021	5	40	
5	Architectural Coating	Architectural Coating	8/2/2021	5/31/2024	5	740	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 54

Acres of Paving: 0

Residential Indoor: 772,740; Residential Outdoor: 257,580; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	111.00	36.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	22.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Winter

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116		3,685.6569	3,685.6569	1.1920		3,715.4573

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0664	0.0456	0.4593	1.2200e-003	0.1369	9.2000e-004	0.1379	0.0363	8.5000e-004	0.0372		121.1696	121.1696	3.2300e-003		121.2503
Total	0.0664	0.0456	0.4593	1.2200e-003	0.1369	9.2000e-004	0.1379	0.0363	8.5000e-004	0.0372		121.1696	121.1696	3.2300e-003		121.2503

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Winter

3.2 Site Preparation - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0664	0.0456	0.4593	1.2200e-003	0.1369	9.2000e-004	0.1379	0.0363	8.5000e-004	0.0372		121.1696	121.1696	3.2300e-003		121.2503
Total	0.0664	0.0456	0.4593	1.2200e-003	0.1369	9.2000e-004	0.1379	0.0363	8.5000e-004	0.0372		121.1696	121.1696	3.2300e-003		121.2503

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Winter

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.4538	0.0000	7.4538	3.4648	0.0000	3.4648			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.043 4	6,007.043 4	1.9428		6,055.613 4
Total	4.1912	46.3998	30.8785	0.0620	7.4538	1.9853	9.4391	3.4648	1.8265	5.2913		6,007.043 4	6,007.043 4	1.9428		6,055.613 4

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0738	0.0507	0.5103	1.3500e-003	0.1521	1.0300e-003	0.1532	0.0404	9.5000e-004	0.0413		134.6329	134.6329	3.5900e-003		134.7226
Total	0.0738	0.0507	0.5103	1.3500e-003	0.1521	1.0300e-003	0.1532	0.0404	9.5000e-004	0.0413		134.6329	134.6329	3.5900e-003		134.7226

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Winter

3.3 Grading - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.4538	0.0000	7.4538	3.4648	0.0000	3.4648			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.043 4	6,007.043 4	1.9428		6,055.613 4
Total	4.1912	46.3998	30.8785	0.0620	7.4538	1.9853	9.4391	3.4648	1.8265	5.2913	0.0000	6,007.043 4	6,007.043 4	1.9428		6,055.613 4

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0738	0.0507	0.5103	1.3500e-003	0.1521	1.0300e-003	0.1532	0.0404	9.5000e-004	0.0413		134.6329	134.6329	3.5900e-003		134.7226
Total	0.0738	0.0507	0.5103	1.3500e-003	0.1521	1.0300e-003	0.1532	0.0404	9.5000e-004	0.0413		134.6329	134.6329	3.5900e-003		134.7226

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Winter

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1179	3.6753	1.0708	8.6600e-003	0.2166	0.0105	0.2272	0.0623	0.0101	0.0724		917.1074	917.1074	0.0557		918.5003
Worker	0.4097	0.2813	2.8323	7.5000e-003	0.8444	5.7000e-003	0.8501	0.2240	5.2500e-003	0.2292		747.2123	747.2123	0.0199		747.7101
Total	0.5275	3.9566	3.9031	0.0162	1.0610	0.0162	1.0772	0.2863	0.0153	0.3016		1,664.3198	1,664.3198	0.0756		1,666.2104

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Winter

3.4 Building Construction - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1179	3.6753	1.0708	8.6600e-003	0.2166	0.0105	0.2272	0.0623	0.0101	0.0724		917.1074	917.1074	0.0557		918.5003
Worker	0.4097	0.2813	2.8323	7.5000e-003	0.8444	5.7000e-003	0.8501	0.2240	5.2500e-003	0.2292		747.2123	747.2123	0.0199		747.7101
Total	0.5275	3.9566	3.9031	0.0162	1.0610	0.0162	1.0772	0.2863	0.0153	0.3016		1,664.3198	1,664.3198	0.0756		1,666.2104

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Winter

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1094	3.4881	0.9876	8.5800e-003	0.2166	9.2600e-003	0.2259	0.0623	8.8500e-003	0.0712		908.9586	908.9586	0.0541		910.3119
Worker	0.3831	0.2529	2.5972	7.2300e-003	0.8444	5.5500e-003	0.8499	0.2240	5.1100e-003	0.2291		720.4583	720.4583	0.0179		720.9048
Total	0.4925	3.7409	3.5848	0.0158	1.0610	0.0148	1.0758	0.2863	0.0140	0.3003		1,629.4169	1,629.4169	0.0720		1,631.2167

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Winter

3.4 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1094	3.4881	0.9876	8.5800e-003	0.2166	9.2600e-003	0.2259	0.0623	8.8500e-003	0.0712		908.9586	908.9586	0.0541		910.3119
Worker	0.3831	0.2529	2.5972	7.2300e-003	0.8444	5.5500e-003	0.8499	0.2240	5.1100e-003	0.2291		720.4583	720.4583	0.0179		720.9048
Total	0.4925	3.7409	3.5848	0.0158	1.0610	0.0148	1.0758	0.2863	0.0140	0.3003		1,629.4169	1,629.4169	0.0720		1,631.2167

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Winter

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0867	2.9453	0.8703	8.4100e-003	0.2166	4.4500e-003	0.2210	0.0623	4.2600e-003	0.0666		892.1942	892.1942	0.0485		893.4060
Worker	0.3590	0.2275	2.3797	6.9600e-003	0.8444	5.4200e-003	0.8498	0.2240	4.9900e-003	0.2290		693.4138	693.4138	0.0160		693.8130
Total	0.4457	3.1728	3.2500	0.0154	1.0610	9.8700e-003	1.0708	0.2863	9.2500e-003	0.2956		1,585.6080	1,585.6080	0.0644		1,587.2190

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3.4 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0867	2.9453	0.8703	8.4100e-003	0.2166	4.4500e-003	0.2210	0.0623	4.2600e-003	0.0666		892.1942	892.1942	0.0485		893.4060
Worker	0.3590	0.2275	2.3797	6.9600e-003	0.8444	5.4200e-003	0.8498	0.2240	4.9900e-003	0.2290		693.4138	693.4138	0.0160		693.8130
Total	0.4457	3.1728	3.2500	0.0154	1.0610	9.8700e-003	1.0708	0.2863	9.2500e-003	0.2956		1,585.6080	1,585.6080	0.0644		1,587.2190

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Winter

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0826	2.8890	0.8134	8.3600e-003	0.2166	4.2200e-003	0.2208	0.0623	4.0300e-003	0.0663		887.0663	887.0663	0.0479		888.2633
Worker	0.3380	0.2056	2.2002	6.6900e-003	0.8444	5.3000e-003	0.8497	0.2240	4.8800e-003	0.2289		666.4694	666.4694	0.0144		666.8288
Total	0.4206	3.0946	3.0135	0.0151	1.0609	9.5200e-003	1.0704	0.2863	8.9100e-003	0.2952		1,553.5357	1,553.5357	0.0623		1,555.0921

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Winter

3.4 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0826	2.8890	0.8134	8.3600e-003	0.2166	4.2200e-003	0.2208	0.0623	4.0300e-003	0.0663		887.0663	887.0663	0.0479		888.2633
Worker	0.3380	0.2056	2.2002	6.6900e-003	0.8444	5.3000e-003	0.8497	0.2240	4.8800e-003	0.2289		666.4694	666.4694	0.0144		666.8288
Total	0.4206	3.0946	3.0135	0.0151	1.0609	9.5200e-003	1.0704	0.2863	8.9100e-003	0.2952		1,553.5357	1,553.5357	0.0623		1,555.0921

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Winter

3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0554	0.0380	0.3827	1.0100e-003	0.1141	7.7000e-004	0.1149	0.0303	7.1000e-004	0.0310		100.9746	100.9746	2.6900e-003		101.0419
Total	0.0554	0.0380	0.3827	1.0100e-003	0.1141	7.7000e-004	0.1149	0.0303	7.1000e-004	0.0310		100.9746	100.9746	2.6900e-003		101.0419

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Winter

3.5 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0554	0.0380	0.3827	1.0100e-003	0.1141	7.7000e-004	0.1149	0.0303	7.1000e-004	0.0310		100.9746	100.9746	2.6900e-003		101.0419
Total	0.0554	0.0380	0.3827	1.0100e-003	0.1141	7.7000e-004	0.1149	0.0303	7.1000e-004	0.0310		100.9746	100.9746	2.6900e-003		101.0419

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Winter

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.4534					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	6.6723	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0812	0.0558	0.5614	1.4900e-003	0.1674	1.1300e-003	0.1685	0.0444	1.0400e-003	0.0454		148.0961	148.0961	3.9500e-003		148.1948
Total	0.0812	0.0558	0.5614	1.4900e-003	0.1674	1.1300e-003	0.1685	0.0444	1.0400e-003	0.0454		148.0961	148.0961	3.9500e-003		148.1948

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Winter

3.6 Architectural Coating - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.4534					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	6.6723	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0812	0.0558	0.5614	1.4900e-003	0.1674	1.1300e-003	0.1685	0.0444	1.0400e-003	0.0454		148.0961	148.0961	3.9500e-003		148.1948
Total	0.0812	0.0558	0.5614	1.4900e-003	0.1674	1.1300e-003	0.1685	0.0444	1.0400e-003	0.0454		148.0961	148.0961	3.9500e-003		148.1948

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Winter

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.4534					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	6.6580	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0759	0.0501	0.5148	1.4300e-003	0.1674	1.1000e-003	0.1685	0.0444	1.0100e-003	0.0454		142.7935	142.7935	3.5400e-003		142.8820
Total	0.0759	0.0501	0.5148	1.4300e-003	0.1674	1.1000e-003	0.1685	0.0444	1.0100e-003	0.0454		142.7935	142.7935	3.5400e-003		142.8820

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Winter

3.6 Architectural Coating - 2022**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.4534					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	6.6580	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0759	0.0501	0.5148	1.4300e-003	0.1674	1.1000e-003	0.1685	0.0444	1.0100e-003	0.0454		142.7935	142.7935	3.5400e-003		142.8820
Total	0.0759	0.0501	0.5148	1.4300e-003	0.1674	1.1000e-003	0.1685	0.0444	1.0100e-003	0.0454		142.7935	142.7935	3.5400e-003		142.8820

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Winter

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.4534					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	6.6451	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0712	0.0451	0.4717	1.3800e-003	0.1674	1.0700e-003	0.1684	0.0444	9.9000e-004	0.0454		137.4334	137.4334	3.1700e-003		137.5125
Total	0.0712	0.0451	0.4717	1.3800e-003	0.1674	1.0700e-003	0.1684	0.0444	9.9000e-004	0.0454		137.4334	137.4334	3.1700e-003		137.5125

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Winter

3.6 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.4534					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	6.6451	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0712	0.0451	0.4717	1.3800e-003	0.1674	1.0700e-003	0.1684	0.0444	9.9000e-004	0.0454		137.4334	137.4334	3.1700e-003		137.5125
Total	0.0712	0.0451	0.4717	1.3800e-003	0.1674	1.0700e-003	0.1684	0.0444	9.9000e-004	0.0454		137.4334	137.4334	3.1700e-003		137.5125

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Winter

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.4534					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	6.6342	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0670	0.0407	0.4361	1.3300e-003	0.1674	1.0500e-003	0.1684	0.0444	9.7000e-004	0.0454		132.0930	132.0930	2.8500e-003		132.1643
Total	0.0670	0.0407	0.4361	1.3300e-003	0.1674	1.0500e-003	0.1684	0.0444	9.7000e-004	0.0454		132.0930	132.0930	2.8500e-003		132.1643

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Winter

3.6 Architectural Coating - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	6.4534					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	6.6342	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0670	0.0407	0.4361	1.3300e-003	0.1674	1.0500e-003	0.1684	0.0444	9.7000e-004	0.0454		132.0930	132.0930	2.8500e-003		132.1643
Total	0.0670	0.0407	0.4361	1.3300e-003	0.1674	1.0500e-003	0.1684	0.0444	9.7000e-004	0.0454		132.0930	132.0930	2.8500e-003		132.1643

4.0 Operational Detail - Mobile

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Winter

4.1 Mitigation Measures Mobile

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.5230	11.6638	32.0548	0.1086	11.0615	0.0877	11.1492	2.9555	0.0817	3.0371		11,030.5078	11,030.5078	0.4923		11,042.8142
Unmitigated	2.5423	11.7837	32.5307	0.1107	11.2873	0.0892	11.3765	3.0158	0.0831	3.0989		11,241.3612	11,241.3612	0.4999		11,253.8585

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Single Family Housing	2,075.48	2,075.48	2,075.48	5,325,908	5,219,390
Total	2,075.48	2,075.48	2,075.48	5,325,908	5,219,390

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	10.00	5.00	6.50	33.00	48.00	19.00	66	28	6
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.568817	0.036545	0.209097	0.111572	0.015710	0.004830	0.018344	0.024276	0.001951	0.001803	0.005698	0.000617	0.000741
Single Family Housing	0.568817	0.036545	0.209097	0.111572	0.015710	0.004830	0.018344	0.024276	0.001951	0.001803	0.005698	0.000617	0.000741

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0850	0.7262	0.3090	4.6400e-003		0.0587	0.0587		0.0587	0.0587		927.0201	927.0201	0.0178	0.0170	932.5289
NaturalGas Unmitigated	0.1618	1.3829	0.5885	8.8300e-003		0.1118	0.1118		0.1118	0.1118		1,765.3358	1,765.3358	0.0338	0.0324	1,775.8263

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Winter

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	15005.4	0.1618	1.3829	0.5885	8.8300e-003		0.1118	0.1118		0.1118	0.1118		1,765.3358	1,765.3358	0.0338	0.0324	1,775.8263
Total		0.1618	1.3829	0.5885	8.8300e-003		0.1118	0.1118		0.1118	0.1118		1,765.3358	1,765.3358	0.0338	0.0324	1,775.8263

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Single Family Housing	7.87967	0.0850	0.7262	0.3090	4.6400e-003		0.0587	0.0587		0.0587	0.0587		927.0201	927.0201	0.0178	0.0170	932.5289
Total		0.0850	0.7262	0.3090	4.6400e-003		0.0587	0.0587		0.0587	0.0587		927.0201	927.0201	0.0178	0.0170	932.5289

6.0 Area Detail

6.1 Mitigation Measures Area

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Winter

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	10.0035	0.2013	17.4739	9.2000e-004		0.0970	0.0970		0.0970	0.0970	0.0000	31.4935	31.4935	0.0302	0.0000	32.2475
Unmitigated	10.0035	0.2013	17.4739	9.2000e-004		0.0970	0.0970		0.0970	0.0970	0.0000	31.4935	31.4935	0.0302	0.0000	32.2475

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.3084					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.1705					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5247	0.2013	17.4739	9.2000e-004		0.0970	0.0970		0.0970	0.0970		31.4935	31.4935	0.0302		32.2475
Total	10.0035	0.2013	17.4739	9.2000e-004		0.0970	0.0970		0.0970	0.0970	0.0000	31.4935	31.4935	0.0302	0.0000	32.2475

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Winter

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.3084					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.1705					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5247	0.2013	17.4739	9.2000e-004		0.0970	0.0970		0.0970	0.0970		31.4935	31.4935	0.0302		32.2475
Total	10.0035	0.2013	17.4739	9.2000e-004		0.0970	0.0970		0.0970	0.0970	0.0000	31.4935	31.4935	0.0302	0.0000	32.2475

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment

Summerfield at Twin Cities - Sacramento Metropolitan AQMD Air District, Winter

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation
